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Still yet another aspect of the present invention is the antenna device, wherein the circuit comprises: amplification means of amplifying the signal for the transmission and/or reception; and frequency selection means of selecting a frequency of the signal for transmission or the signal for reception.

Please replace the paragraph beginning at page 15, line 16, with the following:

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A further aspect of the present invention is a radio equipment comprising the antenna device, and a power supply circuit provided in the circuit.

Respectfully Submitted,


Allan Ratner, Reg. No. 19,717
Attorney for Applicants

AR/dlm

Enclosures: Version with markings to show changes made

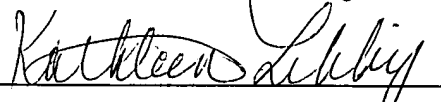
Suite 301
One Westlakes, Berwyn
P.O. Box 980
Valley Forge, PA 19482-0980
(610) 407-0700

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Kathleen Libby

SPECIFICATION:

~~The 1st invention~~ One aspect of the present invention is an antenna comprising:

~~The 2nd invention~~ Another aspect of the present invention is the antenna ~~according to 1st invention~~, wherein the bottom member is grounded as a ground conductor.

~~The 3rd invention~~ Still another aspect of the present invention is the antenna ~~according to 1st invention~~, wherein the bottom member has a feeding point on a surface thereof.

~~The 4th invention.~~ Yet another aspect of the present invention is the antenna ~~according to 1st or 3rd inventions~~, wherein the conductive member and the bottom member are connected to each other in a place other than the signal line the feeding point.

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~~The 5th invention~~ Still yet another aspect of the present invention is the antenna ~~according to 1st invention~~, wherein the conductive member and the side member are connected to each other.

Specification at page 9, line 18:

~~The 6th invention~~ A further aspect of the present invention is the antenna ~~according to 1st invention~~ further comprising:

Specification at page 9, line 22:

~~The 7th invention~~ A still further aspect of the present invention is the antenna ~~according to 6th invention~~, wherein the conductive member and the ceiling member are connected to each other electrically and/or mechanically.

Specification at page 10, line 3:

~~The 8th invention~~ A yet further aspect of the present invention is the antenna ~~according to 6th invention~~, wherein the ceiling member and the side member are connected to each other electrically.

Specification at page 10, line 6:

~~The 9th invention~~ A still yet further aspect of the present invention is the antenna ~~according to 6th invention~~, wherein the ceiling member has a periphery having a curved shape.

Specification at page 10, line 9:

~~The 10th invention~~ An additional aspect of the present invention is the antenna ~~according to 1st invention~~, wherein the bottom member and/or the side member have openings.

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Specification at page 10, line 12:

~~The 11th invention~~ A still additional aspect of the present invention is the antenna ~~according to 6th invention~~, wherein the ceiling member has openings.

Specification at page 10, line 15:

~~The 12th invention~~ A yet additional aspect of the present invention is the antenna ~~according to 10th or 11th invention~~, wherein the openings have means of adjusting their size.

Specification at page 10, line 18:

~~The 13th invention~~ A still yet additional aspect of the present invention is the antenna ~~according to 11th invention~~, wherein, if it is assumed that a projection of the conductive member onto the bottom member is an origin point and the bottom member is arranged in an X-Y plane, the bottom member and the side member are symmetric with respect to a Z-Y plane, and the openings are symmetrically arranged with respect to a Z-Y plane.

Specification at page 11, line 1:

~~The 14th invention~~ A supplementary aspect of the present invention is the antenna ~~according to 13th invention~~, wherein the bottom member and the side member are symmetric with respect to a Z-X plane, and the openings are symmetrically arranged with respect to a Z-X plane.

Specification at page 11, line 6:

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~~The 15th invention~~ A still supplementary aspect of the present invention is the antenna ~~according to 1st or 6th inventions~~, comprising a dielectric member that has a permittivity higher than air and is provided in the space.

Specification at page 11, line 10:

~~The 16th invention~~ A yet supplementary aspect of the present invention the antenna ~~according to 15th invention~~, wherein the dielectric member is provided at least so as to cover a part of the space which is not covered with the ceiling conductor.

Specification at page 11, line 14:

~~The 17th invention~~ A still yet supplementary aspect of the present invention is the antenna ~~according to 15th invention~~, wherein the dielectric member fills the entire inside of the space.

Specification at page 11, line 17:

~~The 18th invention~~ One aspect of the present invention the antenna ~~according to 17th invention~~, wherein the dielectric member has a via hole, and the side member consists of the via hole.

Specification at page 11, line 20:

~~The 19th invention~~ Another aspect of the present invention is the antenna ~~according to 1st or 6th inventions~~, further comprising at least one matching element which is arranged apart by a predetermined distance from the conductive member, wherein the matching element and the bottom member are connected to each other electrically.

~~The 20th invention~~ Still another aspect of the present invention is the antenna ~~according to 19th invention~~, wherein at least one of the matching elements is electrically connected to the conductive member.

~~The 21st invention.~~ Yet another aspect of the present invention is the antenna ~~according to 19th invention~~, wherein at least one of the matching elements is electrically connected to the ceiling member and/or the side member.

~~The 22nd invention~~ Still yet another aspect of the present invention is an arrangement method of antennas that is an arrangement method of the antennas ~~according to 1st invention~~, comprising a step of aligning and arranging the plural antennas in a manner to conform a direction for minimizing directivity of each of the antennas on a horizontal plane.

~~The 23rd invention~~ A further aspect of the present invention is an antenna device comprising:

~~the antenna according to 1st or 6th inventions; and all or part of a~~
circuit for transmission and/or reception which is connected to the signal line
while being arranged in the space.

Specification at page 12, line 23:

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~~The 24th invention~~ A still further aspect of the present invention is

Specification at page 13, line 4:

~~The 25th invention of the present invention is 25.~~

A yet further aspect of the present invention is the ~~The~~ antenna

wherein all or part of the circuit is arranged in the concave portion.

Specification at page 13, line 10:

~~The 26th invention~~ A still yet further aspect of the present invention

Specification at page 13, line 15:

~~The 27th invention~~—An additional further aspect of the present

Specification at page 13, line 18:

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~~The 28th invention~~ A still additional further aspect of the present invention is the antenna device ~~according to 23rd invention~~, wherein an active element is contained in the circuit.

Specification at page 13, line 21:

~~The 29th invention~~ A yet additional further aspect of the present invention is ~~29~~.

~~The the antenna device according to 23rd invention~~, wherein a microwave circuit is contained in the circuit.

Specification at page 14, line 1:

~~The 30th invention~~ A still yet additional aspect of the present invention is the antenna device ~~according to 23rd invention~~, wherein an optical passive element is contained in the circuit.

Specification at page 14, line 4:

~~The 31st invention~~ A supplementary aspect of the present invention is the antenna device ~~according to 23rd invention~~, wherein an optical active element is contained in the circuit.

Specification at page 14, line 7:

~~The 32nd invention~~ A still supplementary aspect of the present invention is the antenna device ~~according to 23rd invention~~, wherein the circuit has an IC.

Specification at page 14, line 10:

~~The 33rd invention~~ A yet supplementary aspect of the present invention is the antenna device ~~according to 23rd invention~~ wherein the circuit has such size that the circuit is hidden behind the ceiling member, when viewing the antenna device from the ceiling member, side in the direction perpendicularly to the ceiling member.

Specification at page 14, line 15:

~~The 34th invention~~ A still yet supplementary aspect of the present invention is an array antenna device that is an array antenna device where the plural antenna devices ~~according to 23rd invention~~ are arrayed, wherein the circuits in the plural antenna devices each input or output the same signal.

Specification at page 14, line 20:

~~The 35th invention~~ Another aspect of the present invention is the array antenna device ~~according to 23rd invention~~, wherein the circuit has a cartridge form so as to be detachable from the antenna.

Specification at page 14, line 23:

~~The 36th invention~~ Still another aspect of the present invention is the antenna device ~~according to 23rd invention~~, wherein the circuit comprises plural sub-circuits having radio systems different from each other, and switching means of switching the connection between anyone of the sub-circuits an the antenna.

Specification at page 15, line 4:

~~The 37th invention~~ Yet another aspect of the present invention is the antenna device ~~according to 23rd invention~~, wherein the circuit is arranged in the position that hides the circuit behind the ceiling member, when viewing the

Specification at page 15, line 10:

~~The 38th invention~~ Still yet another aspect of the present invention is

Specification at page 15, line 16:

~~The 39th invention~~ A further aspect of the present invention is a

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